

Poor RICHARD improved :

BEING AN
ALMANACK
AND
E P H E M E R I S
OF THE
MOTIONS of the SUN and MOON;
THE TRUE
PLACES and ASPECTS of the PLANETS;
THE
RISING and SETTING of the SUN;
AND THE
Rising, Setting and Southing of the Moon,
FOR THE
YEAR of our LORD 1753:
Being the First after LEAP-YEAR.

Containing also,

The Lunations, Conjunctions, Eclipses, Judgment of the Weather, Rising and Setting of the Planets, Length of Days and Nights, Fairs, Courts, Roads, &c. Together with useful Tables, chronological Observations, and entertaining Remarks.

Fitted to the Latitude of Forty Degrees, and a Meridian of near five Hours West from London; but may, without sensible Error, serve all the NORTHERN COLONIES.

By RICHARD SAUNDERS, Philom.

PHILADELPHIA:

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The Anatomy of Man's Body as govern'd by the Twelve Constellations.

☿ The Head and Face.



♊ The Feet.

To know where the Sign is.

First Find the Day of the Month, and against the Day you have the Sign or Place of the Moon in the 5th Column. Then finding the Sign here, it shews the Part of the Body it governs.

The Names and Characters of the Seven Planets.

☉ Sol, ♄ Saturn, ♃ Jupiter, ♂ Mars, ♀ Venus, ☿ Mercury, ☾ Luna, ☊ Dragons Head and ☋ Tail.

The Five Aspects.

♌ Conjunction, ☊ Opposition, * Sextile,
 △ Trine, ☐ Quartile.

Common Notes for the Year 1753. N. S.

Golden Number	6	} } Dominical Letter	G
Epaact	25		} } Cycle of the Sun

COURTEOUS READER,

THIS is the twentieth Time of my addressing thee in this Manner, and I have reason to flatter myself my Labours have not been unacceptable to the Publick. I am particularly pleas'd to understand that my *Predictions of the Weather* give such general Satisfaction; and indeed, such Care is taken in the Calculations, on which those Predictions are founded, that I could almost venture to say, there's not a single One of them, promising *Snow, Rain, Hail, Heat, Frost, Fogs, Wind, or Thunder*, but what comes to pass *punctually and precisely* on the very Day, in some Place or other on this little *diminutive* Globe of ours; (and when you consider the vast Distance of the Stars from whence we take our Aim, you must allow it no small Degree of Exactness to hit any Part of it) I say on this Globe; for tho' in other Matters I confine the Usefulness of my *Ephemeris* to the *Northern Colonies*, yet in that important Matter of the Weather, which is of such *general Concern*, I would have it more extensively useful, and therefore take in both Hemispheres, and all Latitudes from *Hudson's Bay* to *Cape Horn*.

You will find this Almanack in my former Method, only conformable to the *New-Style* established by the Act of Parliament, which I gave you in my last at length; the new Act since made for Amendment of that first Act, not affecting us in the least, being intended only to regulate some Corporation Matters in *England*, before unprovided for. I have only added a Column in the second Page of each Month, containing the Days of the *Old Style* opposite to their corresponding Days in the *New*, which may, in many Cases, be of Use; and so conclude (believing you will excuse a short Preface, when it is to make Room for something better)

Thy Friend and Servant,

R. SAUNDERS.

H Y M N to the CREATOR, from Psalm CIV.

AWAKE, my Soul! with Joy thy God adore;
Declare his Greatness; celebrate his Pow'r;
Who, cloath'd with Honour, and with Glory crown'd,
Shines forth, and cheers his Universe around.
Who with a radiant Veil of heavenly Light
Himself conceals from all created Sight.
Who rais'd the spacious Firmament on high,
And spread the azure Curtain of the Sky.
Whose awful Throne Heav'n's starry Arch sustains,
Whose Presence not Heav'n's vast Expanse restrains.
Whose Ways unsearchable no Eye can find,
The Clouds his Chariot, and his Wings the Wind.
Whom Hosts of mighty Angels own their Lord,
And flaming Seraphim fulfil his Word.
Whose Pow'r of old the solid Earth did found,
Self-poisd, self-center'd, and with Strength girt round;

From

From her appointed Sphere forbid to fly,
Or rush unbalanc'd thro' the trackless Sky.
To reas'ning Man the sov'reign Rule assign'd,
His Delegate o'er each inferior Kind ;
Too soon to fall from that distinguish'd Place,
His Honours stain'd with Guilt and foul Disgrace.

He saw the Pride of Earth's aspiring Lord,
And in his Fury gave the dreadful Word :
Straight o'er her peopled Plains his Floods were pour'd,
And o'er her Mountains the proud Billows roar'd.
Athwart the Face of Earth the Deluge sweeps,
And whelms the impious Nations in the Deep.
Again God spake——and at his pow'rful Call
The raging Floods assuage, the Waters fall,
The Tempests hear his Voice, and straight obey,
And at his Thunder's Roar they haste away :
From off the lofty Mountains they subside,
And gently thro' the winding Vallies glide,
Till in the spacious Caverns of the Deep
They sink together, and in Silence sleep.
There he hath stretch'd abroad their liquid Plains,
And there Omnipotence their Rage restrains,
That Earth no more her Ruins may deplore,
And guilty Mortals dread their Wrath no more.

He bids the living Fountains burst the Ground,
And bounteous spread their Silver Streams around :
Down from the Hills they draw their shining Train,
Diffusing Health and Beauty o'er the Plain.
There the fair Flocks allay the Summer's Rage,
And panting Savages their Flame assuage.
On their sweet winding Banks th' aerial Race
In artless Numbers warble forth his Praise,
Or chant the harmless Raptures of their Loves,
And cheer the Plains, and wake the vocal Groves.
Forth from his Treasures in the Skies he pours
His precious Blessings in refreshing Show'rs.
Each dying Plant with Joy new Life receives,
And thankful Nature smiles, and Earth revives.
The fruitful Fields with Verdure he bespreads,
The Table of the Race that haunts the Meads,
And bids each Forest, and each flow'ry Plain
Send forth their native Physic for the Swain.

Thus

Thus doth the various Bounty of the Earth
Support each Species crowding into Birth.
In purple Streams she bids her Vintage flow,
And Olives on her Hills luxuriant grow,
One with its generous Juice to cheer the Heart,
And one illustrious Beauty to impart ;
And Bread of all Heav'n's precious Gifts the chief
From desolating Want the sure Relief.
Which with new Life the feeble Limbs inspires,
And all the Man with Health and Courage fires.
The Cloud-topt Hills with waving Woods are crown'd,
Which wide extend their sacred Shades around,
There *Lebanon's* proud Cedars nod their Heads ;
There *Bashan's* lofty Oaks extend their Shades :
The pointed Firs rise tow'ring to the Clouds,
And Life and warbling Numbers fill the Woods.

Nor gentle Shades alone, nor verdant Plains,
Nor fair enamell'd Meads, nor flow'ry Lawns,
But e'en rude Rocks and dreary Desarts yield
Retreats for the wild Wand'ers of the Field.
Thy Pow'r with Life and Sense all Nature fills,
Each Element with varied Being swells,
Race after Race arising view the Light,
Then silent pass away, and sink in Night.
The Gift of Life thus boundlessly bestow'd,
Proclaims th' exhaustless Hand, the Hand of God.

Nor less thy Glory in th' etherial Spheres,
Nor less thy ruling Providence appears.
There from on high the gentle Moon by Night
In solemn Silence sheds her Silver Light,
And thence the glorious Sun pours forth his Beams,
Thence copious spreads around his quick'ning Streams.
Each various Orb enjoys the golden Day,
And Worlds of Life hang on his chearful Ray.
Thus Light and Darkness their fix'd Course maintain,
And still the kind Vicissitudes remain :
For when pale Night her sable Curtain spreads,
And wraps all Nature in her awful Shades,
Soft Slumbers gently seal each mortal Eye,
Stretch'd at their Ease the weary Lab'ers lie.
The restless Soul 'midst Life's vain Tumults tost,
Forgets her Woes, and ev'ry Care is lost.

Then

J A N U A R Y. I Month.

Then from their Dens the rav'nous Monsters creep,
 Whilst in their Folds the harmless Bestial sleep.
 The furious Lion roams in quest of Prey,
 To gorge his Hunger till the Dawn of Day ;
 His hideous Roar with Terror shakes the Wood,
 As from his Maker's Hand he asks his Food.
 Again the Sun his Morning Beams displays,
 And fires the eastern Mountain with his Rays.

Before

	Remark. days, &c.	☉ ri.	☉ set	☽ pl.	Aspects, &c.
1	2 CIRCUMCISION.	7 24	4 36	♂ 11	☽ with ♂
2	3 Clouds and	7 24	4 36	23	☽ with ♀
3	4 cold, with	7 23	4 37	♂ 5	☽ rise 4 23
4	5 snow ;	7 23	4 37	17	*Tis against
5	6 Days inc. 4 m.	7 23	4 37	29	☽ with ♀ some
6	7 EPIPHANY.	7 22	4 38	☾ 10	♂ rise 4 44
7	G 1 p. Epiph.	7 22	4 38	22	☽ w. ♀ Mens
8	2 wind and	7 21	4 39	✕ 4	Principle to pay
9	3 falling	7 21	4 39	16	Interest, and
10	4 Days inc. 10 m.	7 20	4 40	28	seems against
11	5 weather,	7 19	4 41	☿ 10	☽ s. 11 6 others
12	6 then	7 18	4 42	23	☽ rise 5 42
13	7 very cold,	7 17	4 43	♂ 6	Sirius so. 10 52
14	G 2 p. Epiph.	7 16	4 44	19	* ♀ Interest
15	2 Day incr. 18 m.	7 16	4 44	☿ 2	*'s so. 7 42
16	3 wintry	7 15	4 45	16	☽ so. 10 39
17	4 weather ;	7 14	4 46	☾ 0	♂ rise 4 36
18	5 but grows more	7 13	4 47	15	☽ with ☽ to
19	6 Day 9 36 long.	7 12	4 48	♂ 1	☉ in ☽ pay
20	7 moderate,	7 12	4 48	17	☽ ☽ the
21	G 3 p. Epiph.	7 11	4 49	☿ 3	Principal.
22	2 followed by	7 10	4 50	18	♀ sets 8 2
23	3 clouds, wind	7 9	4 51	☾ 2	Philosophy as
24	4 and	7 8	4 52	15	well as Foppery
25	5 Conv. St. PAUL.	7 7	4 53	28	* ♂ ♀ often
26	6 Day incr. 38 m.	7 6	4 54	☿ 11	changes Fashion.
27	7 cold, with	7 5	4 55	24	☽ rise 4 48
28	G 4 p. Epiph.	7 4	4 56	♂ 7	*'s sou. 6 47
29	2 snow or	7 3	4 57	19	Sirius sou. 9 44
30	3 K. Char. behead,	7 2	4 58	♂ 1	☽ with ♀ & ♂
31	4 rain.	7 1	4 59	13	☽ with ♀

JANUARY hath xxxi Days.

D. H.			Planets Places.							
New	D	mor.	D.	☉	☿	♂	♀	♂	♂	D.L.
First Q.	12	at noon.		☿	♂	♂	♂	♂	♂	
Full	19	10 mor.	1	12	29	11	7	15	26	N. 2
Last Q.	26	4 mor.	6	17	30	10	11	21	24	5
8	12 m	12 Deg.	12	23	☿	0	9	15	29	19 2
	22	11	17	28	1	8	19	♂	5	14 S. 4
	31	10	22	☿	3	1	8	22	11	13 4
			27	8	2	7	26	17	15	N. 1



D. Rise & Set. T. ☉

1 4 39 9 M 4 1 12
 2 5 33 10 30 1
 3 Moon 11 19 2
 4 sets. 12 6 3
 5 A. A. 53 3
 6 7 01 36 4
 7 8 02 18 5
 8 8 54 3 0 6
 9 9 50 3 43 6
 10 10 47 4 27 7
 11 11 46 5 10 8
 12 12 50 5 51 8
 13 M. 50 6 44 9
 14 1 51 7 34 10
 15 2 52 8 28 11
 16 3 56 9 23 12
 17 4 57 10 22 1
 18 Moon 11 21 2
 19 rises 12 25 3
 20 A. Morn. 3 9
 21 7 56 1 30 4
 22 9 11 2 26 5
 23 10 18 3 16 6
 24 11 19 4 5 7
 25 12 22 4 54 7
 26 M. 22 5 43 8
 27 1 17 6 34 9
 28 2 21 7 26 10
 29 3 26 8 14 11
 30 4 39 3 12 19
 31 4 44 9 51 12

THE Greatness of that Power, which has been exerted in the Creation, though every Object in Nature shews it, will best appear by considering a little the GREAT Works, properly so called, of Nature; the Sun, and Planets, and the fixed Stars. The Sun and Moon, the most conspicuous to us of all the celestial Bodies, are the only ones mentioned in the sacred Text: But the Invention of that noblest of Instruments the Telescope, and the Sagacity of the Astronomers of later Ages, whose Observations have improved and corrected those of the foregoing, afford us a very different Idea of the Solar System, from what the single Consideration of those two most conspicuous Bodies gives us. As this may probably fall in to the Hands of some, who have not Leisure or Opportunities of reading Books of Astronomy, the following brief View of our System, and of the Immensity of the Creation, according to the Theory of the Moderns, may not be unacceptable.

It is proper, in the first Place, just to mention, That the real Magnitudes, Distances, Orbits, and other Affections of the Bodies of our System are determined by what Astronomers call their Parallaxes, and by their Elongations from the Sun, and their apparent Magnitudes, and other analogical Methods, which would take up by far too much Time to explain here; by which it is possible to determine

FEBRUARY.

II Month.

Before him fly the Horrors of the Night ;
 He looks upon the World—and all is Light.
 Then the lone Wand'ers of the dreary Waste
 Affrighted to their Holds return in Haste,
 To Man give up the World, his native Reign.
 Who then resumes his Pow'r, and rules the Plain.
 How various are thy Works, Creator wise !
 How to the Sight Beauties on Beauties rise !

Where

		Remark. days, &c.	Grif	set	pl.	Aspects, &c.
1	5	Days 10 h. long.	7	0	5	0 25 24 fou. 9 28
2	6	Purification V. M.	6	59	5	1 7 8 rise 4 20
3	7	Clouds	6	58	5	2 19 Setting too good
4	G 5 p.	Epiph.	6	56	5	4 1 an Example
5	2	and wind,	6	55	5	5 13 8 rise 5 34
6	3	with	6	54	5	6 25 6 D 8 6 2 8
7	4	falling	6	53	5	7 7 8 sets 8 2 is a
8	5	Days incr. 1 6	6	52	5	8 20 Kind of Slander
9	6	weather,	6	51	5	9 8 3 seldom forgiven;
10	7	then fair	6	50	5	10 16 tis Scandalum
11	G 6 p.	Epiph.	6	48	5	12 29 Magnatum.
12	2	and cold;	6	47	5	13 13 14 24 8 A great
13	3	changeable	6	46	5	14 27 12 rise 3 49
14	4	VALENTINE.	6	45	5	15 12 D w. 24 Talker
15	5	Days inc. 1 22	6	43	5	17 27 12 8 8 may be
16	6	and like for	6	42	5	18 12 7 *s sets 1 0
17	7	rain, or snow,	6	41	5	19 27 24 fou. 8 21
18	G	Septuagesima.	6	40	5	20 12 12 12 in 12 no Fool;
19	2	then follows	6	38	5	22 26 Sirius fou. 8 21
20	3	Day 10 46 long.	6	37	5	23 10 8 rise 4 5
21	4	clear and cold	6	36	5	24 24 8 sets 9 0
22	5	weather ; but	6	35	5	25 8 * 12 but he
23	6	soon changes to	6	33	5	27 21 is one that
24	7	St. Matthias.	6	32	5	28 3 3 12 24 relies
25	G	Sexagesima.	6	31	5	29 15 on him.
26	2	snow	6	30	5	30 27 12 rises 3 0
27	3	or cold rain.	6	28	5	32 9 D with 12
28	4	Day inc. 1 56 m.	6	27	5	33 21 D with 8

FEBRUARY hath xxviii Days.

D. H.

Planets Places.

New D	3	3 mor.	D.	☉	♂	♂	♂	♂	♂	♂	D ^s L.
First Q.	10	12 aft.									
Full ☉	17	3 aft.	1	13	2	7	0	23	19	N.	5
Last Q.	24	7 aft.	6	18	3	7	3	29	24		4
8 {	12 m	9 Deg.	12	24	3	6	7	7	6	0 S.	3
	22	8	17	29	4	6	11	12	7		5
	28	7	22	4	4	6	14	17	14		0
			27	19	4	6	18	23	22	N.	4



D. D. rise D. son. T.

1	5	29	10	39	1	21	those Distances are not too great to yield a
2	Moon	11	24	2	22	Parallax. Astronomers, for Example, know	
3	sets	A.	9	3	23	certainly the Distance of the Moon from the	
4	A.	12	52	3	24	Earth, viz. 240 thousand Miles, because the	
5	7	45	1	35	4	25	Moon yields a very sensible Parallax; and they
6	8	39	2	18	5	26	know, that the Sun's Distance from the Earth
7	9	39	3	1	6	27	is very probably, at least, ten thousand Times
8	10	41	3	50	6	28	the Diameter or Thickness of the Earth,
9	11	44	4	38	7	29	which is about eight thousand Miles, and
10	12	47	5	29	8	30	brings the whole Distance to about eighty
11	M.	47	6	19	9	31	Millions of Miles. It is, I say, hardly to be
12	1	43	7	18	10	32	doubted, that the Distance from the Sun to
13	2	46	8	17	11	33	the Earth is, at least, eighty Millions of
14	3	47	9	16	12	34	Miles; but it is not certainly known, whe-
15	4	34	10	15	1	35	ther it is not a great deal more. In the Year
16	Moon	11	14	2	36	1761, the Distance of all the Planets from the	
17	rises	12	10	3	37	Sun will be determined to a great Degree of	
18	A.	Morn	3	7	38	Exactness by Observations on a Transit of the	
19	7	53	1	6	4	8	Planet Venus over the Face of the Sun, which
20	9	21	57	4	9	9	's to happen the 6th of May, O. S. in that Year.
21	10	92	48	5	10	10	But, according to the present Theory, the
22	11	19	3	40	6	11	Sun, to appear of the Magnitude he does to
23	12	17	4	32	7	12	our Eyes at the Distance of eighty Millions of
24	M.	17	5	20	8	13	Miles, must be a Body a great many hundred
25	1	8	6	8	9	14	thousand Times larger than the Earth, so that
26	2	0	6	58	9	15	if his Centre were placed where that of the
27	2	48	7	47	10	16	Earth is, his outward Surface would extend
28	3	27	8	34	11	17	one hundred and forty thousand Miles higher
							than the Orbit of the Moon, his Diameter of

than the Orbit of the Moon, his Diameter or Thickness being seven hundred and sixty thousand Miles, whereas that of the Earth is but about eight thousand. This amazing World

MARCH. III Month.

Where Goodness worthy of a God bestows
His Gifts on all, and without Bounds o'erflows;
Where Wisdom bright appears, and Pow'r divine,
And where Infinitude itself doth shine;
Where Excellence invisible's exprest,
And in his glorious Works the God appears confest.
With Life thy Hand hath stock'd this earthly Plain,
Nor less the spacious Empire of the Main.

There

		Remark. days, &c.	☉ rif.	☉ set	☿ pl.	Aspects, &c.
1	5	St. DAVID.	6 26	5 34	☿ 3	* ♀ ☿ When
2	6	Cool and	6 24	5 36	15	7 *s set 12 0
3	7	windy,	6 23	5 37	27	☿ w. ☿ Reason
4	G	Shrove Sunday.	6 22	5 38	☿ 9	☿ sou. 7 25
5	2	then snow	6 20	5 40	21	☿ sets 9 28
6	3	Shrove-Tuesday.	6 19	5 41	☿ 4	preaches, if you
7	4	Ash-Wednesday.	6 18	5 42	17	* ☿ ☿ won't
8	5	Days 11 28 long.	6 16	5 44	8 0	☿ w. ☿ hear her
9	6	follow'd by sharp	6 15	5 45	13	☿ ri. 3 50 she'll
10	7	nipping weather;	6 14	5 46	26	☿ ☿ ☿ box your
11	G	1st in Lent.	6 12	5 48	☿ 9	Sirius so. 7 6.
12	2	Day inc. 2 28 m.	6 11	5 49	23	8 ☿ ☿ Ears.
13	3	now fine and	6 10	5 50	☿ 7	☿ with ☿
14	4	Ember Week.	6 8	5 52	21	☿ rise 2 4.
15	5	pleasant for	6 7	5 53	☿ 6	☿ set 2 9
16	6	the season;	6 6	5 54	21	Sirius set 11 51
17	7	St. PATRICK.	6 4	5 56	☿ 6	☿ rise 3 43
18	G	2d in Lent.	6 3	5 57	21	7 *s set 11 4
19	2	then	6 2	5 58	☿ 5	☿ ☿ ☿ Equal
20	3	Days 12 long.	6 0	6 0	19	☿ in ☿ Day and
21	4	clouds	5 59	6 1	☿ 3	☿ ☿ ☿ Night.
22	5	and	5 58	6 2	17	* ☿ ☿ It is not
23	6	high winds	5 56	6 4	☿ 0	☿ ☿ ☿ Leisure
24	7	Days inc. 3 h.	5 55	6 5	12	☿ sets 9 57
25	G	Annunciation.	5 54	6 6	24	☿ ☿ ☿ that is
26	2	with rain and	5 52	6 8	☿ 6	☿ with ☿ not
27	3	cold, but	5 51	6 9	18	☿ ☿ ☿ used.
28	4	grows	5 50	6 10	☿ 0	☿ rise 1 17
29	5	more	5 48	6 12	12	☿ with ☿
30	6	moderate.	5 47	6 13	☿ 24	Sirius set 11 0
31	7	Day 12 30 long.	5 45	6 15	☿ 6	☿ sets 1 15

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MARCH hath xxxi Days.

D. H.			Planets Places.									
New	4	11 aft.	D.	☉	♂	♂	♂	♂	♂	♂	♂	♂
First Q.	12	10 mor.		♂	♂	♂	♂	♂	♂	♂	♂	♂
Full	19	1 mor.	4	14	5	6	22	29	0	N.	4	
Last Q.	26	at noon.	9	19	5	6	26	84	9	S.	1	
8	12 m	7 Deg.	12	22	5	6	28	7	15		4	
	22	6	17	27	5	6	2	12	25		4	
	31	6	22	♂ 2	5	7	6	17	♂ 6	N.	1	
			27	7	6	7	19	23	16		5	



D. | Rise | | Set. | T. | of Fire turns once round in about twenty-five Days. This is known by a Number of dusky Spots, which appear upon the Sun's Face, so as to be seen sometimes with the naked Eye, when he shines through a thin Cloud or Mist; but are always observable with the Help of a Telescope, with a dark Glass for the Security of the Eye. These Spots could not be visible at the Distance of the Sun, if they were not as large as the whole Earth; but such of them as appear of a considerable Breadth, as they often do, must be still vastly larger. They never continue long to make the same Appearance; but are always rising and vanishing again. They are probably Exhalations floating in the Sun's Atmosphere at some Distance from his Body, or Masses of Cynder fallen from that Atmosphere upon his Surface.

This glorious Luminary, the Centre of our System, has six opaque Globes, commonly called the Planets, going round him at different Distances, and in different Periods, but all from West to East, as follows.

1. *Mercury*, a Body considerably inferior in Size to the Earth, performs his Course in about three Months, which is his Year, at the Distance of thirty Millions of Miles from the Sun. The Heat of the Sun in *Mercury* (if there be no Provision made for mitigating it) must be such, as, if it were the same on the Earth, would keep all the Waters upon it constantly boiling: And the Brightness of the Sun's

A P R I L. IV Month.

There the tall Ships the rolling Billows sweep,
 And bound triumphant o'er th' unfathom'd Deep.
 There great Leviathan in regal Pride,
 The scaly Nations crouding by his Side,
 Far in the dark Recesses of the Main
 O'er Nature's Wastes extends his boundless Reign.
 Round the dark Bottoms of the Mountain's roves,
 The hoary Deep swells dreadful as he moves.

Now

		Remark. days, &c.	☉	ris	☉	fet	☿	pl	Aspects, &c.
1	G	4th in Lent.	5	44	6	16	X	18	♂ rise 3 22
2	2	Rain, and	5	43	6	17	Y	0	The Good-will
3	3	mild	5	42	6	18		13	of the Governed
4	4	weather,	5	40	6	20		26	☿ w. ♀ will be
5	5	Days inc. 3 32 m.	5	39	6	21	8	9	* ☉ ♂ starv'd,
6	6	grows windy	5	38	6	22		22	♀ sets 10 26 1/2
7	7	and cool, then	5	37	6	23	II	6	☿ w. ♀ not fed
8	G	5th in Lent.	5	35	6	25		20	7 * s sets 9 50 by
9	2	warm and	5	34	6	26	☿	4	☿ with ☿ the
10	3	springing,	5	33	6	27		18	good Deeds of
11	4	Days 12 56 long.	5	32	6	28	☿	2	the Governors.
12	5	follow'd	5	30	6	30		16	☿ rise 12 21
13	6	by clouds	5	29	6	31	☿	1	7 * s sets 9 30
14	7	and rain,	5	28	6	32		15	☿ set 12 26
15	G	Palm Sunday.	5	26	6	34		29	Sirius set 10 2
16	2	then fair and	5	25	6	35	☿	13	♂ rise 2 55
17	3	pleasant again ;	5	24	6	36		27	♀ sets 10 37
18	4	Days 13 16 long.	5	23	6	37	☿	10	Paintings and
19	5	Maund. Thursday	5	22	6	38		23	☉ in 8 Fight-
20	6	Good Friday.	5	20	6	40	♂	6	ings are best
21	7	now rain	5	19	6	41		19	7 * s set 9 0
22	G	Easter-day.	5	18	6	42	☿	2	☿ with ☿
23	2	St. George.	5	17	6	43		14	Sirius sets 9 33
24	3	and cool,	5	16	6	44		26	seen at a
25	4	St. Mark.	5	15	6	45	☿	8	☉ ☉ ☿
26	5	Pr. Will. b. 1721	5	13	6	47		20	distance.
27	6	then clouds	5	12	6	48	X	2	☿ with ♂
28	7	Day 13 38 long.	5	11	6	49		14	☿ rise 11 20
29	G	1st past Easter.	5	10	6	50		26	* ☉ ☿
30	2	and wind.	5	8	6	52	☿	9	☿ sets 11 37
		Day 13 30 long.	15	45	6	15	X		

there

2d
200y

APRIL hath xxx Days.

D. H.

Planets Places.

New D 3 2 aft.
First Q. 10 5 aft.
Full ● 17 2 aft.
Last Q. 25 8 mor.

8 { 12 m 6 Deg.
22 6
30 6

D.	☉	☿	♈	♉	♊	♋	♌	♍	♎	♏	D. L.
1	12	6	7	13	28	26	N.	4			
6	17	6	8	16	11	3	84	S.	1		
12	23	6	8	21	8	12			5		
17	28	6	9	24	12	17			1		
22	83	6	9	28	15	19	N.	4			
27	8	6	10	1	18	19			4		



D. Drise D fou. T. Sun's Light must be such as would be quite intolerable to Eyes like ours. But it does not follow, that Mercury is therefore uninhabitable; since it can be no Difficulty for the Divine Power and Wisdom to accommodate the Inhabitants to the Place they are to inhabit; as the Cold we see Frogs and Fishes bear very well, would soon deprive any of our Species of Life. To an Eye such as ours, the Sun, seen from this Planet, would appear seven times as large as he does to us. He is always so near the Sun, that we have no Opportunity of discovering whether he turns round upon his own Axis, or not, and consequently cannot determine what Length the Days and Nights in Mercury are. He is seen sometimes with Telescopes horned like the Moon, and sometimes like a Half-moon, but never fully illuminated, because that Side of the Planet, on which the Sun shines, is never turned full towards us, except when he is so near the Sun, as to be lost in the Brightness of his Beams. His enlightened Side is always towards the Sun, which shews, that he only shines with the borrowed Light of the Sun. That this Planet revolves round the Sun in an Orbit nearer to him, than that of the Earth, is plain, because he is never seen opposite to the Sun, but always in the West, when he is seen at Sun-setting; and in the East, when he is seen at Sun-rising; and that never beyond the Distance of twenty-eight degrees from the Sun (a Degree is about

C

twice

M A Y. V Month.

Now views the awful Throne of antient Night,
Then mounts exulting to the Realms of Light ;
Now launches to the Deep, now stems the Shore,
An Ocean scarce contains the wild Up roar.

Whate'er of Life replenishes the Flood,
Or walks the Earth, or warbles thro' the Wood,
In Nature's various Wants to thee complains,
The Hand, which gave the Life, the Life sustains.

To

		Remark, days, &c	☉	ris	☉	set	☿	pl.	Aspects, &c.
1	3	PHILIP & JACOB.	5	7	6	53	☿	22	♂ rise 2 30
2	4	Rain and	5	6	6	54	♂	5	♀ set 10 28
3	5	Day inc. 4 40	5	5	6	55	18		☿ w ♀ * h ♂
4	6	gusts	5	3	6	57	☿	2	If you would
5	7	in some	5	2	6	58	16		☿ with ♀ reap
6	2	past Easter.	5	1	6	59	☿	0	♂ ☉ ♀ Praise
7	2	places, with	5	0	7	0	14		☿ with ☿ you
8	3	thunder,	4	5	9	7	1	23	7* s set 7 56
9	4	Day 14 4 long.	4	5	8	7	2	☿ 13	must sow the
10	5	then fine	4	5	7	7	3	27	Sirius set 8 27
11	6	growing	4	5	6	7	4	☿ 11	* ♂ ♀ Seeds,
12	7	weather,	4	5	6	7	4	25	h rise 10 28
13	3	past Easter.	4	5	5	7	5	☿ 9	* ☿ ♀ Gentle
14	2	pleasant,	4	5	4	7	6	23	☿ set 10 49
15	3	with	4	5	3	7	7	☿ 6	♂ rise 2 3
16	4	Day inc. 5 6	4	5	2	7	8	19	Words and
17	5	wind and	4	5	1	7	9	☿ 2	♀ set 9 46
18	6	flying	4	5	0	7	10	15	useful Deeds.
19	7	clouds,	4	4	9	7	11	28	Ignorance leads
20	4	past Easter.	4	4	8	7	12	☿ 10	☉ in ☿ ☿ ☿
21	2	follow'd	4	4	7	7	13	22	Men into
22	3	Days 14 28 long.	4	4	6	7	14	☿ 4	Party, and
23	4	by heat,	4	4	5	7	15	16	Shame keeps
24	5	then	4	4	4	7	16	28	them from get-
25	6	rain and	4	4	4	7	16	☿ 10	ting out again.
26	7	thunder,	4	4	3	7	17	22	☿ with ♂
27		Rogation Sunday.	4	4	2	7	18	☿ 4	h rise 9 26
28	2	Day inc. 5 26	4	4	2	7	18	17	☿ set 10 6
29	3	K. Cha. resto.	4	4	1	7	19	☿ 0	♂ rise 1 32
30	4	pleasant.	4	4	1	7	19	13	☿ with ♀ Haste
31	5	Ascension Day.	4	4	0	7	20	27	makes Waste.

MAY hath xxxi Days.

D. H.			Planets Places.							
New	Q.		D.	☉	☿	♈	♉	♊	♋	♌
3	2 mor.		2	12	6	10	5	21	17	N. 0
9	10 aft.		7	17	6	11	9	23	14	S. 5
17	2 mor.		12	22	6	11	13	25	12	3
24	12 aft.		17	27	5	12	17	27	11	N. 2
8	12 m	6 Deg.	22	☿ 2	5	14	20	26	11	5
	22	6	27	6	5	15	24	25	14	3
	31	5								



D.	☉	☿	♈	♉	♊	♋	♌	☽	L.			
14	6	10	44	120	twice the apparent Breadth of the Moon.)							
2	Moon	11	31	221	The same Considerations prove, that the next							
3	sets	A.	21	322	Planet, viz.							
4	A	1	17	423	2. Venus revolves round the Sun in an Orbit							
5	9	43	2	14	524	including that of Mercury within it: For she						
6	10	40	3	12	625	is always seen in the Neighbourhood of the						
7	11	29	4	10	726	Sun, and never appears in the West when the						
8	12	3	5	6	827	Sun is in the East, nor contrariwise; nor ever						
9	M.	3	6	2	928	removes above forty-eight Degrees from him.						
10		48	6	54	929	When she is on one Side of her Orbit, she is our						
11		23	7	45	1030	Morning- and on the other, our Evening Star.						
12		2	8	37	1131	This Planet turns round upon its own Axis in						
13		36	9	29	1232	twenty-three Hours, as the Earth does in						
14		3	12	10	20	1333	twenty-four. Venus performs her annual Re-					
15		45	11	8	2	434	volution round the Sun in two hundred twen-					
16	Moon	11	56	2	535	ty-four Days, at the Distance of about fifty-						
17	rises	12	48	3	636	nine Millions of Miles from the Sun. She is						
18	A.	M.	48	3	737	nearly of the Size of the Earth. She appears						
19	9	31	1	42	4	838	through a Telescope exactly as the Moon does					
20	10	14	2	30	5	939	to the naked Eye, partly enlightened, and					
21	10	51	3	19	6	1040	partly dark, and with the same Inequalities on					
22	11	29	4	6	7	1141	her Face as on that of the Moon. Some					
23	12	0	4	53	7	1242	Astronomers fancy they have seen a Satellite					
24	Morn	5	36	8	1343	or Moon near Venus, like that belonging to						
25	0	27	6	19	9	1444	the Earth: But it is not yet certain whether					
26	0	56	7	10	1545	they have deceived themselves or not.						
27	1	27	7	45	10	1646	3. The Earth, which we inhabit, possesses					
28	1	58	8	32	11	1747	the next Place in the Solar System, and, at					
29	2	30	9	20	12	1848	the Distance of about eighty Millions of Miles,					
30	3	8	10	13	1	1949	as above, performs her yearly Revolution					
31	Moon	11	6	2	2050	round the Sun in about three hundred sixty-five						
						Days, and at the same time, as a Bowl upon a						
						Bowling-						

J U N E. VI Month.

To each th' appointed Sustenance bestows,
 To each the noxious and the healthful shows.
 Thou spread'st thy Bounty—meagre Famine flies:
 Thou hid'st thy Face—their vital Vigour dies.
 Thy pow'ful Word again restores their Breath;
 Renew'd Creation triumphs over Death.
 Th' Almighty o'er his Works casts down his Eye,
 And views their various Excellence with Joy;

His

		Remark. days, &c.	Oris	☉	☾	pl.	Aspects, &c.
1	6	Clouds and.	4 40	7 20	II 11	♀	☾ 8 17
2	7	like for	4 39	7 21	25	♂	with ♀ Many
3	G 6	past Easter.	4 39	7 21	☿ 9	♂	with ♀ have
4	2	rain, with	4 39	7 21	24	♂	quarrel'd about
5	3	Day 14 44 long.	4 38	7 22	♂ 9	♂	Religion, that
6	4	wind and	4 38	7 22	23	♀	☾ rise 3 28
7	5	thunder;	4 38	7 22	17	♂	never practis'd
8	6	Days inc. 5 36	4 37	7 23	21	♂ ☉ ♀	it.
9	7	flying	4 37	7 23	25	♂	Sudden Power
10	G	Whit Sunday.	4 37	7 23	19	☉ ♀	♂ is apt to
11	2	St. BARNABAS.	4 36	7 24	11	♂	be insolent, Sud-
12	3	clouds, warm	4 36	7 24	15	♂	ri. 8 13 den
13	4	Ember Week.	4 36	7 24	28	♂	☾ set 9 8
14	5	Days 14 50	4 35	7 25	11	♂	☾ rise 12 52
15	6	and inclin'd	4 35	7 25	24	♂	Liberty saucy;
16	7	to rain,	4 35	7 25	6	♂	☾ ♀ * ♂ ♀
17	G	Trinity Sunday.	4 35	7 25	18	♂	that behaves best
18	2	Days inc. 5 40	4 35	7 25	☿ 0	♂ ♀ ♀	which
19	3	with wind	4 35	7 25	12	♂	has grown gra-
20	4	and	4 35	7 25	24	♂	☾ ♀ dually.
21	5	Corp. Christ.	4 35	7 25	6	☉	in ☿
22	6	K. Geo. Acces.	4 35	7 25	18	♂	He that best un-
23	7	thunder,	4 35	7 25	0	♂	derstands the
24	G	St. JOHN Baptist.	4 35	7 25	12	♂	☾ ☾ ♂ 8 ☉ ♀
25	2	then	4 35	7 25	25	♂	World, least
26	3	cooler,	4 35	7 25	8	♂	☾ set 8 32 likes
27	4	but soon	4 35	7 25	21	♂	☾ rise 7 8 it.
28	5	Days 14 50	4 35	7 25	II 5	♂	☾ ☾ ♀ 8 ♀
29	6	grows hot again.	4 36	7 24	19	♂	☾ rise 12 14
30	7	St. PETER.	4 36	7 24	☿ 4	♂	with ♀

King G E O R G E's 27th Year begins the 22d Day.

John and Hannah

JUNE hath xxx Days.

D. H.		Planets Places.							
New	D	1 at noon.	D.	☉	☿	♈	♉	♊	♋
First	Q.	8 6 mor.		☿	♈	♉	♊	♋	♌
Full	●	15 at noon.		☿	♈	♉	♊	♋	♌
Last	Q.	23 4 aft.	1	☿	♈	♉	♊	♋	♌
New	D	30 9 aft.	6	☿	♈	♉	♊	♋	♌
{		12 m 5 Deg.	12	☿	♈	♉	♊	♋	♌
		22 4	17	☿	♈	♉	♊	♋	♌
		30 3	22	☿	♈	♉	♊	♋	♌
			27	☿	♈	♉	♊	♋	♌



D.	☿	☿	T.	Bowling-green not only proceeds forward, but	
1	sets	A.	3	21	likewise turns round upon its own Axis, so
2	A.	1	0	22	does the Earth turn once round upon its Axis
3	9	15	1	23	as it goes along, every twenty-four Hours. It
4	10	7	2	24	is astonishing, and even frightful to think, that
5	10	49	3	25	this vast and cumbrous Globe of Earth and
6	11	25	4	26	Sea, which is almost twenty-five thousand
7	12	05	5	27	Miles in Circumference, has received such an
8	Morn	6	6	28	Impulse from the Almighty Arm, as has car-
9	0	34	7	29	ried it constantly for above these five thousand
10	1	8	8	30	Years, that we know of, round the Sun at
11	1	42	8	31	the Rate of at least fifty thousand Miles every
12	2	16	9	1	Hour, which it must absolutely do, to go round
13	2	57	10	2	the Sun in a Year at the Distance of eighty
14	Moon	11	29	3	Millions of Miles from him. So that, if an
15	rises	12	23	4	Angel were to come from some other World,
16	A.	M.	23	5	and to place himself near the Earth's Way,
17	8	51	1	6	he would see it pass by him with a Swiftness,
18	9	26	1	7	to which that of a Cannon Ball is but as one
19	10	03	40	8	to one hundred, and would be left behind by
20	10	27	3	9	it no less than the above Number of Miles in
21	10	53	4	10	the Space of one Hour. There is no more
22	11	23	4	11	Reason to doubt, that the Earth goes in this
23	11	51	5	12	Manner round the Sun, than there would be
24	12	22	6	13	for a Passenger in a Ship on smooth Water,
25	M.	22	7	14	who saw the Objects upon Land continually
26	0	55	7	15	passing by, to doubt whether the Vessel he
27	1	32	3	16	was in, or the Shore, was in Motion. We see
28	2	14	9	17	the Sun continually changes his Place with re-
29	Moon	10	36	18	spect to the fixed Stars, and must own it to be
30	sets	11	37	19	highly improbable that this Change of Place

is owing to any Change in the whole Heavens, which.

Martha

J U L Y. VII Month.

His Works with Rev'rence own his pow'rful Hand,
 And humble Nature waits his dread Command,
 He looks upon the Earth—her Pillars shake,
 And from her Centre her Foundations quake.
 The Hills he touches—Clouds of Smoke arise,
 And sulph'rous Streams mount heavy to the Skies.

Whilst Life informs this Frame, that Life shall be
 (O First and Greatest !) sacred all to Thee.

Thy

	Remark. days, &c.	☉ rise	☉ set	pl.	Aspects, &c.
1	G 2 past Trin.	4 36	7 24	☾ 19	☽ with ☿
2	2 Days dec. 2 m.	4 36	7 24	☿ 4	☉ ☽ ☿ Anger
3	Clouds	4 37	7 23	19	is never without
4	and	4 37	7 23	☿ 4	a Reason, but
5	wind,	4 37	7 23	18	seldom with a
6	then hot,	4 38	7 22	☾ 2	good One.
7	7 Days dec. 6 m.	4 38	7 22	16	☿ rise 2 27
8	G 3 past Trin.	4 39	7 21	29	He that is of
9	follow'd by	4 39	7 21	☿ 12	☉ ☿ ☽ ☿ ☽ ☿
10	rain and	4 40	7 20	25	Opinion Money
11	thunder-	4 40	7 20	☿ 8	will do every
12	gusts	4 41	7 19	20	☿ fou. 10 42
13	in many	4 41	7 19	☿ 2	☽ w. ☿ Thing,
14	7 Days dec. 14 m.	4 42	7 18	14	☽ rise 11 38
15	G 4 past Trin.	4 43	7 17	26	may well be
16	places, then	4 43	7 17	☿ 8	suspected of
17	more	4 44	7 16	20	☿ rise 2 3
18	settled and	4 45	7 15	☿ 2	☉ ☽ ☿ doing
19	5 Days dec 20 m.	4 45	7 15	14	* ☿ ☽ every
20	somewhat	4 46	7 14	26	*s rise 12 6
21	cooler ; but	4 47	7 13	☿ 8	☿ ☽ ☽ Thing
22	G 5 past Trin.	4 48	7 12	21	☉ in ☿ for
23	grows hot	4 49	7 11	☿ 4	☽ w. ☽ Money.
24	3 Dog Days begin	4 50	7 10	17	An ill Wound,
25	St. JAMES.	4 50	7 10	☿ 0	but not an ill
26	again, and	4 51	7 9	14	☽ w. ☽ Name,
27	6 Day 14 16 long.	4 52	7 8	28	☉ ☽ ☽ may be
28	thunder fol-	4 53	7 7	☾ 13	☿ fou. 9 30
29	G 6 past Trin.	4 54	7 6	28	☽ w. ☽ healed.
30	lowers with	4 55	7 5	☿ 13	☽ rise 10 58
31	rain.	4 56	7 4	28	☽ with ☽

JULY hath xxxi Days.

D. H.			Planets Places.							
First Q.	7	at noon.	D.	☉	☿	♂	♀	♂	♂	D. L.
Full ●	15	6 mor.		☿	♂	♂	♀	♂	☿	
Last Q.	23	6 mor.	2	11	3	23	20	10	11	S. 5
New ☾	30	1 mor.	7	16	2	24	23	11	21	1
☾ {	12	m 2 Deg.	12	20	2	25	26	12	☿ 1	N. 4
	22	1	17	25	2	26	29	14	11	5
	31	0	22	☿ 0	1	27	8 2	17	20	1
			27	5	1	29	5	20	28	S. 4



D. sets ☾ sou. T.					which, considering the Distance of the starry	
1	A.	A. 38	3	20	Heavens, would require a Motion infinitely	
2	8	38	1	35	4	21 more rapid than that above ascribed to the
3	9	19	2	32	5	22 Earth. As for the common Objection against
4	9	57	3	27	6	23 the Earth's Motion, that we are not sensible
5	10	30	4	19	7	24 of it, and that a Stone thrown up from the
6	11	5	5	9	8	25 Earth ought not to fall down upon the same
7	11	37	5	59	8	26 Place again; it is answered at once by the a-
8	12	13	6	48	9	27 bove Comparison of a Ship, from which (as
9	M.	13	7	37	10	28 has been often found by Experiment) a Ball
10	0	53	8	29	11	29 fired directly up in the Air, does not fall be-
11	1	33	9	19	12	30 hind the Ship, let her Motion be ever so swift,
12	2	24	10	12	1	but, partaking of the Ship's Motion, is car-
13	3	15	10	59	1	ried forward in the Air, and falls down again
14	Moon	11	45	2	3	upon the Deck. And as to the Objections
15	rise	12	34	3	4	taken from some Scripture Expressions, which
16	A.	M.	34	3	5	seem to contradict the Theory of the Earth's
17	8	21	1	12	4	6 Motion, it is plain, from innumerable Instan-
18	8	50	1	55	4	7 ces, that Revelation was not given to Man-
19	9	20	2	38	5	8 kind to make them Philosophers of deep Rea-
20	9	49	3	22	6	9 soners, but to improve them in Virtue and
21	10	18	4	6	7	10 Piety; and that it was therefore proper it
22	10	50	4	54	7	11 should be expressed in a Manner accommoda-
23	11	26	5	42	8	12 ted to common Capacities and popular Opi-
24	12	7	6	30	9	13 nions in all Points merely speculative, and
25	M.	7	7	23	10	14 which were not to have any direct Influence
26	0	50	8	20	11	15 upon the Hearts and Lives of Men. The
27	1	45	9	18	12	16 Truth of the Matter is, that the Demon-
28	2	47	10	18	1	17 strations given by the incomparable Sir Isaac
29	4	0	11	18	2	18 Newton, have established the Doctrine of the
30	Moon	A.	16	3	19	19 Motion of the Earth and other Planets, and
31	sets	1	15	4	20	20 the Comets round the Sun, and of the se-
						condary

AUGUST. VIII Month.

Thy Praise my Morning Song, my daily Theme,
My Ev'ning Subject, and my Midnight Dream;
When Grief oppresses, and when Pain assails;
When all the Man, and all the Stoic fails;
When fierce Tentation's stormy Billows roll;
When Guilt and Horror overwhelm my Soul;
With outward Ills contending Passions join'd,
To shake frail Virtue, and unhinge the Mind;

When

	Remark, days, &c.	Oris	Set	Pl.	Aspects, &c.
1	4 Lammas Day.	4 57	7 3	13	♀ rise 1 40
2	5 <i>More tempe-</i>	4 58	7 2	27	<i>When out of Fa-</i>
3	6 Days dec. 46 m.	4 58	7 2	11	<i>your, none know</i>
4	7 <i>rate, then</i>	4 59	7 1	25	<i>thee; when in,</i>
5	G 7 past Trin.	5 0	7 0	9	<i>thou dost not</i>
6	2 <i>clouds, with</i>	5 16	59	22	Δ ♂ ♀ <i>know</i>
7	3 <i>rain</i>	5 26	58	5	7 *s rise 10 55
8	4 Day 13 54 long.	5 36	57	17	<i>thyself.</i>
9	5 <i>and</i>	5 46	56	29	♂ with ♀
10	6 St. Lawrence.	5 56	55	11	<i>A lean Award</i>
11	7 <i>thunder;</i>	5 66	54	23	♀ sets 7 54
12	G 8 past Trin.	5 86	52	5	♂ sou. 8 30
13	2 <i>sultry weather,</i>	5 96	51	17	♂ rises 3 32
14	3 <i>clouds, and</i>	5 106	50	29	♂ rise 10 25
15	4 Assum. V. MARY.	5 116	49	11	7 *s rise 10 25
16	5 <i>rain;</i>	5 136	47	23	<i>is better than a</i>
17	6 Days dec. 1 18	5 146	46	5	♀ rise 1 37
18	7 <i>then more</i>	5 156	45	17	<i>fat Judgment.</i>
19	G 9 past Trin.	5 166	44	29	God, Parents,
20	2 Day 13 26 long.	5 176	43	8	12 <i>and Instructors,</i>
21	3 <i>temperate,</i>	5 186	42	25	♂ with ♀ <i>can</i>
22	4 <i>clear</i>	5 206	40	8	♂ in ♀ Δ ♂ ♀
23	5 <i>and fair;</i>	5 216	39	22	<i>never be</i>
24	6 St. BARTHOL.	5 226	38	6	7 *s rise 9 52
25	7 <i>flying</i>	5 246	36	21	♂ with ♀ <i>re-</i>
26	G 10 past Trin.	5 256	35	6	♂ w. ♀ <i>quited.</i>
27	2 Days dec. 1 42	5 266	34	21	♂ sou. 7 36
28	3 <i>clouds and</i>	5 276	33	6	♂ rise 2 54
29	4 <i>perhaps</i>	5 286	32	21	♂ with ♀
30	5 Day 13 h. long	5 306	30	6	Δ ♂ ♀
31	6 <i>rain.</i>	5 316	29	21	♂ rise 9 54

AUGUST hath xxxi Days.

D. H.

Planets Places.

First Q. 5 8 aft.

Full ● 13 9 aft.

Last Q. 21 9 aft.

New D 28 10 mor.

12 \approx 29 Deg.

88 } 22 29

31 28

D.	⊙	h	2	♂	♀	♂	D ^s L.
----	---	---	---	---	---	---	-------------------

Ω | ♀ | Ω | 8 | II | 𐌆 |

1	9	1	0	8	24	5 S.	4
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6	14	I	I	II	28	II	N. 2
---	----	---	---	----	----	----	------

12	20	0	2	15	54	17	5
----	----	---	---	----	----	----	---

17	25	0	3	17	9	22	2
----	----	---	---	----	---	----	---

22	m ^o	o	4	20	14	24	S.	3
----	----------------	---	---	----	----	----	----	---

27 | 4 | 0 | 5 | 23 | 19 | 25 | 5



D. 1) fet. 2) fou. 1. Secondary Planets or Satellites round their Pri-

18A.25 2A. 9 5 21 maries, in such a Manner, as leaves no Room

2:9 33 1 6:22 for any, but such as do not understand them,
2:10 37 52 6:22 to hesitate about it. The Sun's apparent Ri-

379 373 53 6 23 to hesitate about it. The Sun's apparent R-
410 124 44 7 24 ling and Setting is therefore owing to the

5 10 56 5 36 8 25 Earth's turning round upon its own Axis ; and

611 376 28 9:26 his apparent Change of Place among the fixed

712 227 181027 Stars, to our real Change of Situation round
814 228 181128 the Sun. The different Seasons of the Year

8 M. 228 18 11 28 the Sun. The different Seasons of the Year,
9 L. 128 57 11 29 with all their delightful Varieties, are owing

to 2 29 45 I 2 30 to the most simple Contrivance that can be

112 52 10 33 131 imagined, viz. The Inclination of the Earth's
M 8 Axis to the Plane of the Ecliptic. R

12	Moon	11	18	2	Ans	Axis to the Plane of the Ecliptic. Any Per-
12	rises	12	2	2	Ans	son who has not an Opportunity of seeing an

14 A. M. 3 3 3 Orrery, may easily represent this by an Apple

157 250 36 3 4 or any other round Body with a Wire thrust

167 431 20 4 5 through the Middle of it, and carried round
8 222 1 6 a Table bearing a Candle, and a Book.

178 222 4 5 6a Table having a Candle placed on the Mid-
188 512 40 c zide : if the lower End of the Wire be made

199 253 33 6:8 to touch the Table all the Way round, and to

20 10 34 23 7 9 lean a little, the upper End still pointing to-

2110 475 13 8 10 towards the same Side of the Room, by turning
2113 426 10 11 the Shower round, as it is desired, being

2211 426 10 9 11 the Skewer round, as it is carried along, it
2212 277 6 10 12 will be easy to understand how the Earth's

24 M. 37 S 6. 11. 13 Turning once round upon her own Axis, makes

251 399 6 12 14 3 Day and a Night; and by carrying the Ap-

262 51 10 4 115 ple round the Table, it will be easy to shew
264 11 1 1 16 how the Sun (represented by the Candle) ...

274 5 11 1 116 how the Sun (reprelented by the Candle) mult
28 Moon 11 58 2 17 seems to change Place with regard to the fixed

29 fets. A. 55 3 18 Stars; and by observing how differently the

307 A.46 I 50 4 19 Light of the Candle enlightens the different

318 2312 45 520 Parts of the Apple at the Wire points to-

D²

W. 2.

S E P T E M B E R. IX Month.

When Nature sinks ; when Death's dark Shades arise,
 And this World's Glories vanish from these Eyes ;
 Then may the Thought of Thee be ever near,
 To calm the Tumult, and compose the Fear.
 In all my Woes thy Favour my Defence ;
 Safe in thy Mercy, not my Innocence,
 And through what future Scenes thy Hand may guide
 My wond'ring Soul, and thro' what States untry'd,

What

	Remark. days, &c.	☉ ris	☉ set	☽ pl.	Aspects, &c.
1	7 Dog Days end	5 32	6 28	♍ 5	* ♀ ☿ He that
2	G 11 past Trin.	5 33	6 27	18	* ♂ ♀ builds
3	2 Clouds	5 34	6 26	♂ 1	♀ rises 1 51
4	3 and	5 35	6 25	14	before he counts
5	4 Days dec. 2 2	5 36	6 24	27	☽ with ♀ the
6	5 like for	5 38	6 22	♂ 9	Cost, a&s fool-
7	6 rain ; then	5 39	6 21	21	7 *s rise 9 0
8	7 Nativ. V. MARY.	5 40	6 20	☿ 3	isbly ; and he
9	G 12 past Trin	5 41	6 19	15	that counts be-
10	2 wind,	5 43	6 17	27	fore he builds,
11	3 Days 12 32 long.	5 44	6 16	♂ 8	finds he did not
12	4 Days dec. 2 22	5 46	6 14	20	☽ set 11 16
13	5 fair and	5 47	6 13	♂ 2	7 *s rise 8 40
14	6 Holy Rood.	5 49	6 11	14	☽ ri. 2 11 count
15	7 pleasant,	5 50	6 10	26	♂ ♀ ♀ wisely.
16	G 13 past Trin.	5 51	6 9	8 9	♂ rise 9 11
17	2 Days 12 16 long.	5 53	6 7	22	♀ rise 2 14
18	3 for some	5 54	6 6	11 5	☽ with ♂
19	4 Ember Week.	5 56	6 4	18	Patience in
20	5 days ;	5 57	6 3	☿ 2	Market, is
21	6 St. MATTHEW.	5 58	6 2	16	worth Pounds
22	7 then clouds	6 0	6 0	♍ 0	☉ in ☐ ☉ ♀
23	G 14 past Trin.	6 1	5 59	14	☽ w. ♀ & ♀ in a
24	2 with wind	6 3	5 57	29	☽ ☉ ♂ Year.
25	3 and	6 4	5 56	14	☽ w. ♂ Danger
26	4 rain	6 5	5 55	29	7 *s rise 7 52 is
27	5 Days decr. 3 h.	6 7	5 53	14	☽ set 10 21
28	6 towards the end.	6 8	5 52	28	☽ rise 1 30
29	7 St. MICHAEL.	6 9	5 51	12	♂ r. 8 32 Sauce
30	G 15 past Trin.	6 11	5 49	26	for Prayers.

SEPTEMBER hath xxx Days.

D. H.

Planets Places.

First Q.	4	8 mor.	D.	☉	☿	♊	♈	♀	♋	♌	D ^s L.
Full ●	12	at noon.			☿	♊	♈	♀	♋	♌	
Last Q.	20	4 mor.	1	9	0	6	25	24	24	N.	1
New ☾	26	9 aft.	6	14	0	7	27	29	20		5
88 {	12	28 Deg.	12	20	0	9	29	Ω 6	14		3
	22	28	17	25	0	9	Π 0	11	12	S.	2
	30	28	22	☉ 0	0	10	2	17	13		5
			27	5	0	11	2	23	17		1



D.	set	D.	hou.	T.	ward it, or from it, the Cause of the Dif-
19	13	36	6	21	ference of the Seasons, of the Length of the
29	41	4	27	7	Days and Nights, of the Sun's shining more
310	23	5	17	8	directly or more obliquely upon different Parts
411	16	6	6	9	of the Earth, and of the Heat of Summer,
512	10	7	1	10	and Cold of Winter, may be made plain to
6M.	10	7	56	10	any Capacity. That the Earth is of a round,
70	54	8	41	11	or nearly round Figure, is plain from the Sha-
81	50	9	26	12	dow it casts upon the Face of the Moon in a
92	48	10	11	12	partial Eclipse of the Moon, which is always
103	48	10	57	13	round, and never of any other Figure. It is
114	37	11	37	23	also manifest from what is always observed at
12Moon	12	22	3	24	Sea, viz. That a Ship, as it approaches, first
13rises.	M.	22	3	25	shews its Masts and Sails, and by Degrees its
147	A.	7	0	57	lower Parts, till it becomes all visible; and,
157	39	1	43	4	as it goes off, its Hulk is first lost, and then
168	14	2	30	5	its Sails and upper Parts, till it be quite hid
178	57	3	22	6	by the Convexity or Roundness of the Sur-
189	43	4	14	7	face of the Ocean.
1910	37	5	8	8	As the Earth is carried round the Sun once
2011	39	6	2	9	in a Year, so is the Moon carried round the
2112	41	6	59	9	Earth once in about twenty-seven Days, ac-
22M.	41	7	55	10	companying her in her whole Revolution, at
231	44	8	52	11	the above-mentioned Distance of two hundred
242	53	9	48	12	and forty thousand Miles, and keeping al-
25Moon	10	43	1	14	ways the same Face towards the Earth. That
26sets	11	37	2	15	the Moon goes round the Earth, as her Cen-
27A.	A.	31	3	16	tre, is evident to the Eye. For, when she is
287	0	1	25	4	between the Sun and the Earth, she is invis-
297	39	2	19	5	ble to us, her dark Side being turned toward
308	23	3	13	6	us. When she goes a little Way forward in
				19	her Revolution, so as to come from between

OCTOBER. X Month.

What distant Seats foe'er I may explore,
 When frail Mortality shall be no more ;
 If aught of meek or contrite in thy Sight
 Shall fit me for the Realms of Bliss and Light,
 Be this the Bliss of all my future Days,
 To view thy Glories, and to sing thy Praise.
 When the dread Hour, ordain'd of old, shall come,
 Which brings on stubborn Guilt its righteous Doom,

When

		Remark. days, &c.	☉	ris	☉	set	☿	pl.	Aspects, &c.
1	2	Moderate	6	12	5	48	♂	10	If you have
2	3	and plea-	6	13	5	47		23	♀ rise 3. 45
3	4	Day 11 32 long.	6	14	5	46	♂	5	☿ with ♄ no
4	5	sant, but	6	15	5	45		17	Honey in your
5	6	soon turns	6	16	5	44		29	7 *s rise 7 20
6	7	Days dec. 3 26	6	18	5	42	☿	11	* ☉ ☿ ☐ ♂ ♀
7	8	16 past Trin.	6	19	5	41		23	☐ ♄ ♀ Pot,
8	2	to rain,	6	20	5	40	☿	5	☐ ♂ ♀ have
9	3	with high	6	21	5	39		17	some in your
10	4	wind, and	6	22	5	38		29	Mouth.
11	5	cool,	6	23	5	37	☿	11	A Pair of
12	6	Days dec. 3 40	6	25	5	35		23	☿ sets 9 33
13	7	then more	6	26	5	34	♂	6	* ☿ ♀ good
14	8	17 past Trin.	6	27	5	33		19	7 *s rise 6 46
15	2	settled	6	29	5	31	☿	2	☿ with ♂ Ears
16	3	Day 11 h. long.	6	30	5	30		15	☿ rises 12 42
17	4	and fair,	6	31	5	29		29	Sirius ri. 12 0
18	5	St. LUKE.	6	32	5	28	☿	13	♂ rises 7 20
19	6	warm,	6	34	5	26		27	♀ rises 3 23
20	7	Days dec. 4 h.	6	35	5	25	☿	11	☿ with ☿ will
21	8	18 past Trin.	6	37	5	23		25	drain dry an
22	2	K. Geo. II. cro.	6	38	5	22	☿	9	♂ ☉ ♀ bun-
23	3	and flying	6	39	5	21		24	☉ in ☿ ♂ ☿ ♀
24	4	clouds,	6	40	5	20	☿	9	* ☿ ♀ dred
25	5	Crispin.	6	41	5	19		23	* ☉ ☿ Tongues.
26	6	then	6	43	5	17	☿	7	☿ with ♀
27	7	Days 10 32 long.	6	44	5	16		21	☿ set 8 40
28	8	SIMON and JUDE.	6	45	5	15	♂	4	Sirius ri. 11 20
29	2	cold rain,	6	46	5	14		17	☐ ♂ ♀
30	3	and wind.	6	48	5	12	☿	0	♂ ☿ ☐ ☿ ♀
31	4		6	49	5	11		13	☿ rise 11 55

OCTOBER hath xxxi Days.

D. H.			Planets Places.							
First Q.	3	11 aft.	D.	☉	♂	♂	♂	♀	♂	♂ ^s L.
Full ●	12	4 mor.		☉	♂	♂	♂	♂	♂	
Last Q.	19	10 mor.	2	9	1	12	3	28	24	N. 4
New ☾	26	5 mor.	7	14	1	13	3	24	2	5
8 {	12	28 Deg.	12	19	1	14	4	10	11	0
	22	28	17	24	1	14	3	16	20	S. 4
	31	28	22	29	2	15	2	22	29	4
			27	34	2	15	1	28	37	N. 2



D. 1 sets 11 sou. T. us and the Sun, we see a small Part of her
 19 18 4 A. 10 7 20 Body enlightned, and so on still more and more,
 2 10 9 5 7 8 21 till she comes to be in Opposition to the Sun,
 3 11 25 56 8 22 and then we see all that Side of her which the
 4 11 58 6 44 9 23 Sun shines upon, when we say she is full;
 5 12 54 7 31 10 24 though the Sun does not, in Reality, enlighten
 6 M. 54 8 17 11 25 any more of her Body at Full than at new
 7 1 46 9 1 12 26 Moon; only her enlightened Side is turned to-
 8 2 42 9 45 12 27 wards us in the one Case, and from us in the
 9 3 42 10 30 1 28 other. This whole Matter may be made ve-
 10 4 36 11 14 2 29 ry plain to any Capacity in the same Manner
 11 Moon 11 57 2 30 as is above directed with regard to the Earth's
 12 rises 12 41 3 31 Revolution round the Sun, by carrying a smal-
 13 6 A. 24 M. 41 3 32 ler Apple or Ball to represent the Moon round
 14 7 51 25 4 3 the first, which represents the Earth, and ob-
 15 7 48 2 19 5 4 serving how the Light of the Candle shining
 16 8 37 3 13 6 5 upon the little Ball must appear to a Fly or
 17 9 38 4 11 7 6 other Insect placed upon the large one. When-
 18 10 46 5 9 8 7 ever the Moon happens to come exactly be-
 19 11 55 6 5 9 8 tween the Earth and the Sun, she stops the
 20 Morn. 7 0 10 9 Light of the Sun, and then we say, the Sun
 21 1 0 7 50 10 10 is eclipsed; and according as the Moon hap-
 22 2 4 8 40 11 11 pens to cover a Part or the Whole of the Sun's
 23 3 14 9 36 12 12 Face, we call the Eclipse partial or total.
 24 4 27 10 31 1 13 Sometimes a total Eclipse of the Sun happens
 25 Moon 11 24 2 14 when the Moon is at her greatest Distance from
 26 sets A. 17 3 15 the Earth (for she does not go round the Earth
 27 A. 1 10 4 16 in an exact Circle, as neither do any of the rest
 28 7 9 2 3 5 17 of the primary or secondary Planets round their
 29 8 0 2 56 5 18 Centers) and then, as all Objects appear smal-
 30 8 56 3 48 6 19 ler according to their Distance, she does not
 31 9 42 4 39 7 20 cover the whole Face of the Sun, but a Part

NOVEMBER. XI Month.

When Storms of Fire on Sinners shall be pour'd,
 And all th' Obdurate in thy Wrath devour'd;
 May I then hope to find a lowly Place
 To stand the meanest of th' ethereal Race ;
 Swift at thy Word to wing the liquid Sky,
 And on thy humblest Messages to fly.
 Howe'er thy blissful Sight may raise my Soul,
 While vast Eternity's long Ages roll,

Perfection

		Remark. days, &c.	Oris	set	pl.	Aspects, &c.
1	5	All Saints. .	6 50	5 10	25	♂ rise 6 13
2	6	Days dec. 4 32	6 51	5 9	7	Serving God is
3	7	Clouds	6 52	5 8	19	Doing Good to
4	G 20	past Trin.	6 53	5 7	1	Man, but Pray-
5	2	Powder Plot.	6 54	5 6	13	ing is thought
6	3	Day 10 10 long.	6 55	5 5	25	♀ rise 4.2 an
7	4	and threa-	6 56	5 4	7	easier Service,
8	5	tens cold	6 58	5 2	19	☐ ⊙ ☿ and
9	6	rain or snow,	6 59	5 1	8	therefore more
10	7	K. Geo. II. b. 1683	7 0	5 0	15	Sirius ri. 10 27
11	G 21	past Trin.	7 1	4 59	28	☿ with ♂ gene-
12	2	then	7 3	4 57	11	* ☿ ♀ rally
13	3	pleasant	7 4	4 56	25	☿ sets 7 35 cho-
14	4	Days dec. 5 h.	7 5	4 55	9	☿ ri. 11 4 sen.
15	5	and suite-	7 6	4 54	23	*'s fou. 12 4
16	6	to the	7 7	4 53	7	☿ ⊙ ♂ Nothing
17	7	season,	7 8	4 52	21	☿ w ☿ humbler
18	G 22	past Trin.	7 9	4 51	5	♂ fou. 11 51
19	2	but follow'd	7 10	4 50	19	Sirius rises 9 51
20	3	Day 9 38 long.	7 11	4 49	3	♀ rise 4 29
21	4	by cold	7 12	4 48	17	☿ in ♀ than
22	5	cloudy,	7 12	4 48	1	♂ ☿ ♀ Δ ☿
23	6	Days dec. 5 16	7 13	4 47	15	Ambition, when
24	7	weather,	7 14	4 46	29	it is about to
25	G 23	past Trin.	7 15	4 45	12	*'s fou. 11 26
26	2	with snow	7 16	4 44	25	♂ ☿ ♂ * ☿ ♀
27	3	or rain	7 16	4 44	8	☿ with ☿
28	4	Days dec. 5 24	7 17	4 43	21	☿ sets 6 37
29	5	and wind.	7 18	4 42	3	☿ rises 9 57
30	6	St. ANDREW.	7 18	4 42	15	climb.

NOVEMBER hath xxx Days.

D. H.			Planets Places.							
First Q.	2	6 aft.	D.	☉	♂	♂	♂	♀	♂	♂
Full	10	8 aft.		m	♂	♂	♂	♂	m	
Last Q.	17	7 aft.	1	9	2	16	0	4	15	N. 5
New	24	8 aft	6	14	3	16	28	10	23	3
8 {	12	27 Deg	12	20	3	17	26	17	2	S. 3
	22	27	17	25	4	17	24	23	10	5
	30	26	22	1	4	17	22	0	17	0
			27	6	5	17	21	m	6	N. 5



D. J sets J sou. T. J of his Body is seen round the Moon like a shining Ring. But, if the Moon happens to come between the Earth and Sun, when she is at her least Distance from the Earth, she appears then so large as to cover the whole Face of the Sun, and makes, for some Minutes, a Darkness equal to that of Twilight. When the Earth comes exactly between the Sun and the Moon, she darkens a Part or the Whole of the Moon's Face, and makes an Eclipse of the Moon. The Earth being a Body about thirty or forty Times larger than the Moon, casts a Shadow large enough to eclipse the Moon, if her Diameter were three Times greater than it is, whereas the Shadow of the Moon can never eclipse the whole Face of the Earth together. If the Moon revolved round the Earth in the same Plane as the Earth goes round the Sun, there would be constantly an Eclipse of the Sun every New, and of the Moon every full Moon. But to prevent this Inconvenience, the Author of Nature has ordered Matters so, that the Course of the Moon round the Earth is sometimes above and sometimes below that of the Earth round the Sun, so that their Shadows generally miss one another. These Motions are so exactly regulated, that Astronomers can foretel Eclipses to Minutes at an hundred Years Distance, than which there is not a more remarkable Instance either of human Sagacity, or of the Truth of that Expression of Scrip

DECEMBER. XII Month.

Perfection on Perfection tow'ring high,
 Glory on Glory rais'd, and Joy on Joy,
 Each Pow'r improving in the bright'ning Mind,
 To humble Virtues, lofty Knowledge join'd;
 Be this my highest Aim, howe'er I soar,
 Before thy Footstool prostrate to adore,
 My brightest Crown before thy Feet to lay,
 My Pride to serve, my Glory to obey.

E N D.

	Remark. days, &c.	Oris	Set	Pl.	Aspects, &c.
1	7 Day 9 24 long.	7 19 4	41	27	The discontented
2	G Advent Sunday.	7 19 4	41	9	♂ sou. 10 32
3	2 Cold and	7 20 4	40	21	Man finds no
4	3 Days dec. 5 30.	7 20 4	40	3	easy Chair.
5	4 raw, then	7 21 4	39	15	Sirius rise 8 41
6	5 Days 9 18 long.	7 22 4	38	27	♂ ♀ ♀ □ ♀
7	6 more plea-	7 22 4	38	8 10	♀ rises 5 0
8	7 Concep. V. M.	7 23 4	37	23	♂ ♀ ♂ Δ ○ ♀
9	G 2d in Advent.	7 23 4	37	7 17	*s sou. 10 28
10	2 fant,	7 24 4	36	21	Virtue and a
11	3 Days 9 12 long.	7 24 4	36	5	Trade, are
12	4 frost and	7 24 4	36	19	♂ rise 9 1
13	5 St. Lucy.	7 24 4	36	3	Sirius rise 8 7
14	6 Days decr. 5 40	7 25 4	35	17	♂ with ♀ a
15	7 flying clouds,	7 25 4	35	2	□ ♀ ♂ Child's
16	G 3d in Advent.	7 25 4	35	16 7	*s sou. 9 56
17	2 then more	7 25 4	35	0	♂ sou. 9 14
18	3 moderate	7 25 4	35	14	♀ rises 5 23
19	4 Ember Week.	7 25 4	35	28	best Portion.
20	5 and clear,	7 25 4	35	12	Gifts much
21	6 St. THOMAS.	7 25 4	35	25	○ in ♀ Shor. D
22	7 Days 9 10 long.	7 25 4	35	8	♂ ♀ ♀ ♂ ♀
23	G 4th in Advent.	7 25 4	35	21	Sirius rises 7 23
24	2 but windy,	7 25 4	35	4	♂ with ♀ & ♀
25	3 CHRIST born.	7 25 4	35	17	♂ ○ ♀ expect-
26	4 St. STEPHEN.	7 25 4	35	29	ed, are paid,
27	5 St. JOHN.	7 25 4	35	11	♂ rise 7 51
28	6 INNOCENTS.	7 25 4	35	23	*s sou. 9 0
29	7 Days 9 10 long.	7 25 4	35	5	♂ ○ ♀ not
30	G cold and cloudy.	7 24 4	36	17	Δ ♀ ♀ given,
31	2 Silvester.	7 24 4	36	29	Sirius rise 6 48

DECEMBER hath xxxi Days.

D. H.			Planets Places							
First Q.	2	4 aft	D.	☉	☿	♊	♋	♌	♍	♎
Full ☉	10	8 mor.		♈	♉	♊	♋	♌	♍	♎
Last Q.	17	5 mor		♏	♐	♑	♒	♓	♈	♉
New ☾	24	10 mor.	2	11	5	17	20	12	1	N. 4
			7	16	6	17	19	18	7	S. 1
{	12	25 Deg	12	21	6	17	18	25	11	5
	22	24	17	26	7	17	17	1	12	2
	31	23	22	♏	1	8	16	18	7	8 N. 3
			27	6	8	16	18	13	1	5



D. J. sets Dion. T. Scripture, "That the Works of God are all made in Number, Weight and Measure."

1 11 20 30 8 20 "made in Number, Weight and Measure."

2 12 14 6 10 9 21 "It is certain, by Observations made with good

3 M. 14 6 54 9 22 Telescopes, that, though the Face of the

4 1 7 7 38 10 23 Moon is covered with innumerable Inequali-

5 2 6 8 21 11 24 ties like the Mountains upon the Earth, there

6 3 0 9 4 12 25 is no great Collection of Waters upon it, like

7 4 0 9 54 12 26 our Oceans; nor is there any Reason, from

8 5 0 10 43 1 27 her Appearance through those Instruments,

9 Moon 11 40 2 28 to suppose she has any such Appendage belong-

10 rises 12 36 3 29 ing to her as our Atmosphere of Air. If the

11 A. M. 36 3 30 Moon is inhabited (as she may for any Thing

12 7 17 1 36 4 31 we know) those who live on one Side of Her

13 8 20 2 30 5 32 Hemisphere never can see our World, and those

14 9 30 3 24 6 33 who live on the other can never lose Sight of

15 10 50 4 18 7 34 it, except when the Earth comes between them

16 11 53 5 11 8 35 and the Sun, as she keeps always one Side

17 12 55 6 2 9 36 turned towards us. Those who live about the

18 M. 55 6 53 9 37 middle Parts of the Hemisphere that looks to-

19 1 59 7 44 10 38 wards the Earth, must see it always directly

20 3 8 8 36 11 39 over their Heads with much the same Ap-

21 4 12 9 28 12 40 pearances as the Moon makes to us, some

22 5 10 10 20 1 41 times horned, sometimes half, and some-

23 Moon 11 12 2 42 times wholly illuminated, but of a vastly great-

24 sets A. 4 3 43 er Bulk than the Moon appears to us. It

25 A. 12 53 3 44 seems highly probable, that the Attraction of

26 6 59 1 42 4 45 the Moon acting more strongly upon the Fluid

27 7 58 2 27 5 46 than the solid Parts of our Terraqueous Globe

28 8 53 3 11 6 47 is the Cause of our Tides, as they answer so

29 9 52 3 55 6 48 exactly to her Motions and Distances from us,

30 10 49 4 39 7 49 and other Circumstances. To enter upon that

31 11 45 5 21 8 50 Theory, however, would be beside my pre-

sent Purpose. [Remainder in o r next.]

Handwritten note in cursive script, written vertically along the right margin of the page.

Handwritten note at the bottom of the page, possibly a signature or additional commentary.

ECLIPSES, 1753.

THIS Year there will be four Eclipses, two of the *Sun*, and two of the *Moon*.

The First Eclipse will be of the *Moon*, on *Tuesday*, the 17th Day of *April*, about Two a Clock in the Afternoon, and therefore it cannot be seen here; but in *London* the Moon will rise five Digits eclipsed.

The Second will be of the *Sun*, on *Thursday*, the 3d of *May*, about Two a Clock in the Morning, therefore invisible.

The Third Eclipse will be of the *Moon*, on *Friday*, the 12th Day of *October*, in the Morning, when, if the Air be clear, the Moon will be seen eclipsed almost six Digits; it begins at 26 min. after Two, and ends at 56 min. past Four, so that the whole Duration is two Hours and thirty Minutes.

The TYPE.

North.



South.

The Fourth is a *Solar* Eclipse on *Friday*, the 26th of *October*, about Five a Clock in the Morning, invisible here.

On *Sunday*, the 6th Day of *May*, in the Morning, the Planet *Mercury* may be seen to make a black Spot in

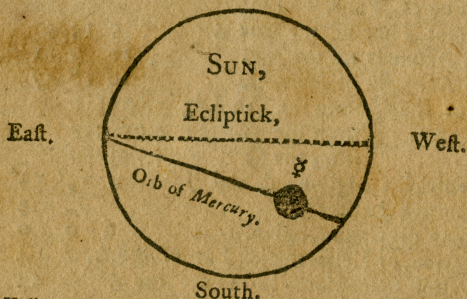
in the *Sun's* Body, according to the following Calculation.

	D.	h.	m.	
Middle Time of the true ☿ 1753, <i>May</i> 5	15	43		P. M.
Equation of Time, add			4	
Apparent Time of the true ☿	5	15	47	
Mean Anomaly of the <i>Sun</i> ,	10	6	21	
Mean Anomaly of <i>Mercury</i> ,	10	19	47	
Dist. of the ☉ from the ☾ Log	5,00	45	18	
☿ from the ☉	4,65	65	57	
☿ from the ☾	4,74	58	39	
Geocentrick Longitude ☉ and ☿	8	15°	53'	0"
Geocentrick Latitude,			3	19
Anomaly of Commutation,	6	0	0	
Inclination, or Heliocentrick Lat. of ☿ S.A.			4	3
Elongation to six Hours before the true ☿		23	24	
Difference of Latitude in six Hours,		4	18	
Angle of the visible Way,	10	25		
Nearest Approach of their Centers,		3	15	
Motion from the Middle to the true ☿			35	
Latitude of ☿ at the Middle,			3	4
Motion of Half the visible Way,		15	24	
Motion of Half Duration,		15	9	
Diff. of Lat. between the Mid. Begin. & End,		2	47	
Geocentrick Latitude at the Beginning, S. A.		0	17	
Geocentrick Latitude at the End, S. A.		5	51	
Time from the true ☿ to the Middle,			4	
Time of Half Duration,	3	53		
The Arch of the ☉'s Perimeter at the Begin.	1	2		
The Arch of the ☉'s Perimeter at the End,	21	48		
Apparent Semidiameter of the <i>Sun</i> ,		15	45	
Apparent Semidiameter of ☿		0	6	
<i>Mercury</i> enters the <i>Sun's</i> Disk, <i>May</i> 5,	11	44		P. M.
Middle or nearest Approach of the Centers,	15	37		
True Conjunction,	15	46		
<i>Mercury</i> emerges out of the Disk,	19	31		
Total Duration of this Eclipse,	7	47		

The astronomical Time when *Mercury* goes off the *Sun's* Disk, being reduced to common Time, is *May* the 6th, at 31 min. after Seven in the Morning. The *Sun* rises at 1 min. past Five, and if you get up betimes, and put on your Spectacles, you will see *Mercury* rise in

the Sun, and will appear like a small black Patch in a Lady's Face.

he TYPE of this Eclipse at Sun-rising.
North.



Dr. Halley puts this Conjunction an Hour forwarder than by this Calculation.

THIS is to give Notice to all Persons that shall have Occasion of transporting themselves, Goods, Wares, or Merchandize from Philadelphia to New-York, or from the latter to the former. That by JOSEPH BORDEN, junior, there is a Stage-boat, well fitted and kept for that Purpose, Nicholas George, Master, and, if Wind and Weather permit, will attend at the Crooked Billet Wharff, in Philadelphia, every Monday and Tuesday in every Week, and proceed up to Borden-Town (not Burlington) on Wednesday, and on Thursday Morning a Stage-waggon, with a choice good Awning, kept by Joseph Richards, will be ready to receive them, and proceed directly to John Cluck's, opposite the City of Perth-Amboy, who keeps a House of good Entertainment; and on Friday a Stage-boat, with a large commodious Cabbin, kept by Daniel Obryant, will be ready to receive them, and proceed directly to New-York, and give her Attendance at the Whitehall Slip, near the Half Moon Battery. If People be ready at the Stage Days and Places, 'tis believed they may pass quicker by Twenty-four Hours than any other Way as our Land Carriage is ten Miles shorter than by Way of Burlington, and our Waggon does not fail to go thro' in a Day. We expect to give better Satisfaction this Year than last, by reason we are more acquainted with the Nature of the Business, and have more convenient Boats, Waggons and Stages, and will endeavour to use People in the best Manner we are capable of, and hope all good People will give it the Encouragement it deserves, and us, as the Promoters of such a publick Good. JOSEPH BORDEN, junior, JOSEPH RICHARDS, and DANIEL OBRYANT.

N. B. Joseph Borden's Shallop, Charles Vandyke, Master, will also be at Philadelphia every Friday and Saturday in every Week; enquire for him at the Queen's Head; he proceeds to Borden-Town (not Burlington) on Sunday, and the Stage-waggon also proceeds to Amboy every Monday in every Week.